

A close-up photograph of a person's hand with fingers spread, touching a dark, textured surface that resembles wet concrete or stone. The lighting is dramatic, highlighting the texture of the skin and the surface.

blueCONCRETE

implicit sustainable!

PURE INNOVATION

blueCONCRETE Technology is more than just another green concrete. blueCONCRETE is the Next Generation of sustainable concretes, based on your local available raw-materials, optimized with our technology.

THE DIFFERENCE lies in the by G.tecz new developed evolutionary algorithms to optimize the packing density of the source materials and waterfilm thickness of each matrix particle. Concrete, based on your raw materials, with a low cement ratio, a better workability, improved mechanical properties and low CO₂ emissions - that's blueCONCRETE.

ECOLOGICAL & ECONOMICAL SAVINGS are implicit. Due to the blueCONCRETE optimization technology, the cement ratio can be decreased up to 30% or to minimal ratios given by national codes. In the same way, silica, fly ash or other reactive fines can be optimized and reduced. National certifications like LEED or GREEN STAR accreditations can be achieved. Along the reduction of emissions, the blueCONCRETE technology can decrease your costs up to 35%.

blueCONCRETE is the improved green concrete and the technology of tomorrow - worldwide available today!

ADVANTAGES

- decreasing costs up to 35%
- increasing durability
- increasing sustainability
- increasing strength
- increasing workability
- reducing bleeding
- on balance: cost-effective
- available: worldwide
- materials: your local raw-materials

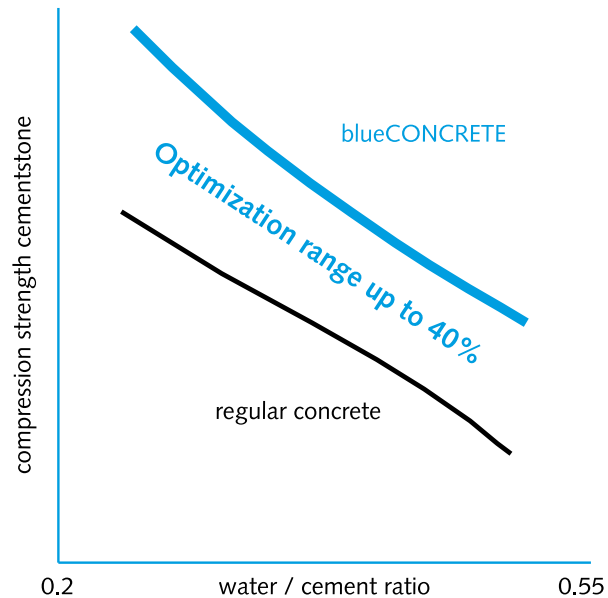
APPLICATIONS

The range of applications is enormous:

- structures and superstructures
- cladding
- civil- and underground engineering
- earth-moist concretes
- pre-cast concretes
- architecture, interior design, ...

SUSTAINABILITY

- decreasing cement ratio up to 30%
- decreasing silica, fly ash
- decreasing CO₂
- decreasing transportation emissions



Water Cement Ratios between 0.2 and 0.55 can be driven with the blue CONCRETE-Technology > The compressive strength can be significantly increased while workability and material quality are improved with a cement reduction of 20%.

TECHNOLOGY

By analyzing the sieve lines of your fines and grains, G.tecz is optimizing the ratio of particle sizes and thus the packing. In combination with calculating the optimal waterfilm thickness, workability, quality and mechanical properties can be retained or even improved.

> More Technical information on inquiry: contact@gtecz.com

REFERENCES

G.tecz realized blueCONCRETE for several companies worldwide. Three examples will show you the bandwidth of the technology:

Austria (Midsize Pre-Cast Company: 40m³ per day) C60

- 30% Cement reduction, renounce of silica
- Savings 35 Euro / m³
- ROI after 2 months

> New concrete class: C90

Netherlands (Midsize Pre-Cast Company: 30m³/day) C45

- 22% Cement reduction, Silica
- Savings 15 Euro / m³
- ROI after 3 months

Germany (Small Pre-Cast Company: 25 m³/day) C35

- 12% cement
- Savings 8,50 Euro / m³
- ROI after 5 months

TECHNOLOGY TRANSFER

The basic key for your economical and ecological success is the TECHNOLOGY TRANSFER of our Know-How to your company. How does this work? Only a few steps are necessary:

- Specification of class & National Codes
- Analysis of local raw-materials & recipe
- Pre-Optimization of your blueCONCRETE
- Estimation of savings
- Optimization of your blueCONCRETE
- Test series > G.tecz Labs
- Evaluation of mech. and phys. properties
- TECHNOLOGY-TRANSFER
- Test series > Your facilities + Evaluation
- Final Adaptation
- > Production

BUSINESS MODEL

The business model does have two phases - development, production & service. G.tecz charges a development fee to cover the initial development costs. Those will be pro-rata refunded with production licence fees. With the licence fees comes the already included G.tecz service.

RETURN OF INVEST takes place within the first months after producing blueCONCRETE.